

**SUNNISKY BHA101 (one output) / BHA104 (four outputs)  
1000MHz Bi-directional Amplifier for Home**

SUNNISKY BHA101H and BHA104 are 1000MHz low noise bi-directional amplifiers for home severally with one port output and four ports outputs; They have 3dB noise figure, so they are two specified wideband bi-directional amplifiers for CATV RF signal. And because they use the GaAs FET module to amplify RF signal, they have better characteristic of gain flatness, better linear, loss noise, etc.



**Feature**

- GaAs FET module to amplify
- 1000MHz wide working frequency range
- Fully compatible with all digital and analogue CATV signal forward and reverse bi-directional transmission
- Return band 5~30 or 5~42 or 5~65MHz optional
- 3dB noise figure
- 6KV surge protected on the all ports
- Water sealed SCTE-compliant connectors
- Weather resistant housing
- 12VDC power Input (Including power adapter with PTC short-circuit protection)

**Specification**

|   |   |
|---|---|
| Forward bandwidth   | 46~1000 or 54~1000 or 88~1000MHz                          |
| Reverse bandwidth   | 5~30 or 5~42 or 5~65MHz                                   |
| Output ports  | BHA101: 1<br>BHA104: 4                                    |
| Forward Gain  | BHA101: 15dB<br>BHA104: 8dB                               |
| Return loss   | BHA101: 0.5dB<br>BHA104: 7.5dB                            |
| Reference output level  | BHA101: 78dBuV<br>BHA104: 75dBuV                          |
| Flatness  | 1dB   |
| Return path insertion loss (all port)   | ≥16dB   |
| Port-port isolation   | ≥20dB   |
| CSO (Composite Second Order)<br>(59 Pal-D channel load at reference output level) | -62dBc (max)  |
| CTB (Composite Triple Beat)<br>(59 Pal-D channel load at reference output level)  | -74dBc (max)  |
| Cross-modulation  | -75dBc (max)  |
| Noise Figure  | 3dB   |
| 3.58MHz Span  | Channel 2: 20nS<br>Channel 3: 10nS<br>Other Channel: 50nS |
| 1MHz Span   | 5~42MHz: 20nS   |

|                                     |                 |
|-------------------------------------|-----------------|
|                                     | 10~36MHz: 5nS   |
| Hum Modulation                      | -70dBc          |
| RF isolation                        | 100dB (min)     |
| Surge Protection                    | 6KV (all port)  |
| Connector                           | F type          |
| Operating Temperature               | -40~ +60°C      |
| Power(AC/DC adapter)                | 12VDC 300mA     |
| Weigh(Including AC/DC adapter)      | About 200g      |
| Size (non- including AC/DC adapter) | 12cm*10cm*2.7cm |
| Size of AC/DC adapter               | 7.5cm*6cm*5cm   |

Note: All specifications are subject to change without notice.



北京阳天宽频网络技术有限公司  
Beijing Sunnisky B. N. T. Co. Ltd  
Tel: 0086-10-62102126 FAX:0086-10-82645461  
E-mail: sales@sunnisky.com  
[www.sunnisky.com](http://www.sunnisky.com)